

Fig. 1

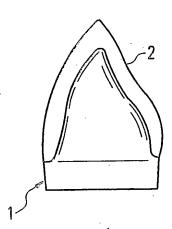


Fig. 2

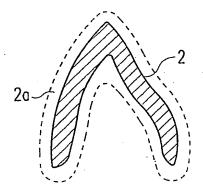


Fig. 3

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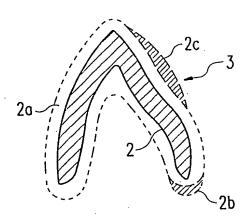
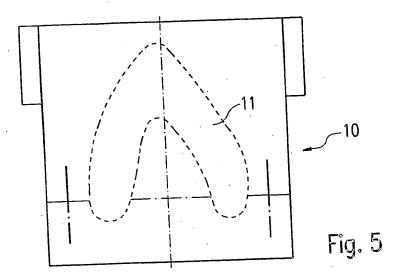
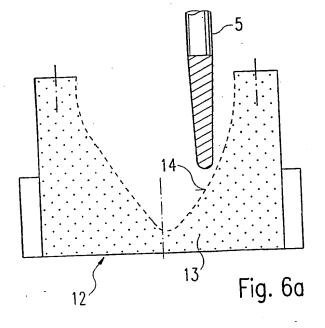
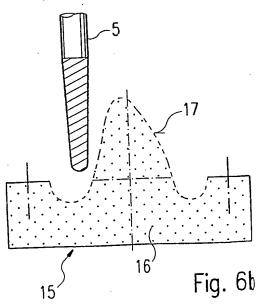
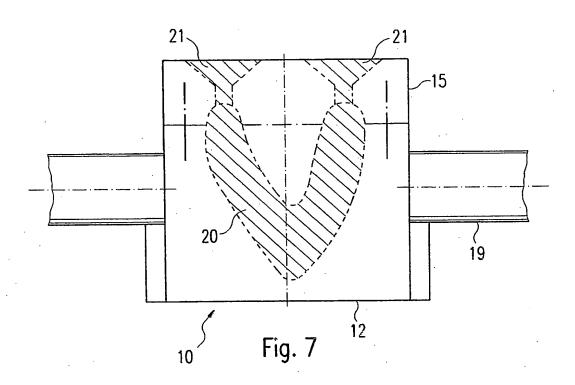


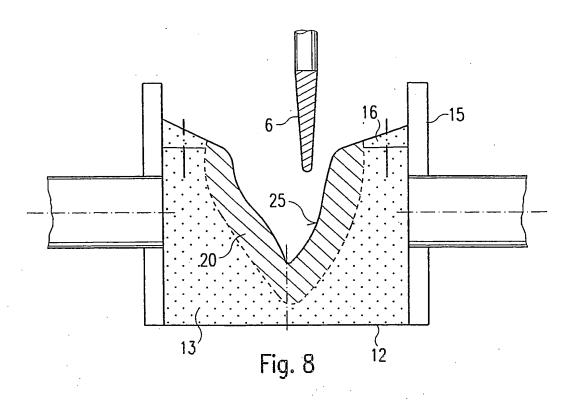
Fig. 4











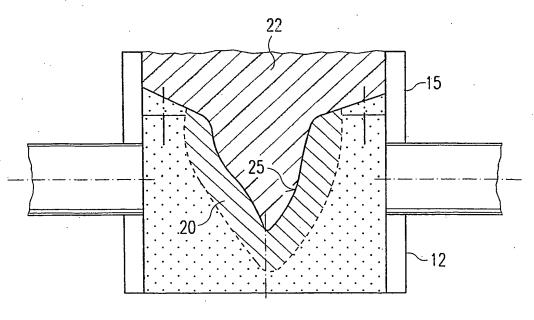
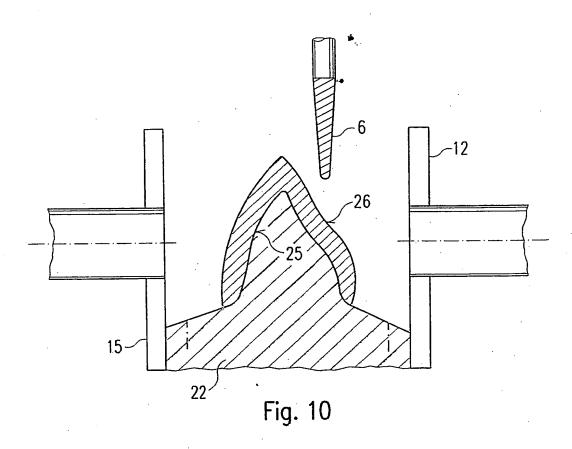


Fig. 9



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Produce individual gold cap in the classical gold casting method	
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Produce individual gold cap CAD-Casting-CAM

Z	Operational Group	Process	ess		2	Operational Group	Process	SSe		
		Manual Work	Aufmat. PC Work	Machine Tool			Manuel Work	Automat Run PC	Wachine Machine	looT
_	Preparatory operations	×			-	Preparatory operations	×		-	
7	Deep draw foil cap	Σ			2	Optically measure stump by scanning		×		
က	Adapt foil cap to stump	Σ			3	Automatic surface reconstruction		X		
4	Insulate stump	\prec			4	Construct crown cap CAD-3D		ㅗ		
ഹ	Fix foil cap	Σ			5	Automatically generate offset on CAD-3D model		×		
ဖ	Model crown in wax	_4			9	Automatically generate CAM-NC program for coquille		<u>×</u>		
7	Lacquer model	노			7	Place coquille blank(s) in mounting bridge	¥	!		
∞	Prepare casting	Σ			œ	5-axis mill coquille mould		×	×	
თ	Prepare muffle	M			6	Automatically generate CAM-NC program for crown cap		×		
10	Produce bedding mass slurry	M			10	Remove finished coquille/coquille-halves from mounting bridge	\mathbf{x}			
=======================================	Fine bedding in	¥			11	Cast coquille with noble metal or Co Cr Mo-alloy	Σ			
12	Bedding in	M	-		12	Reposition casting with coquille in mounting bridge	~			
13	Wax out muffle and pre-warm		×		13	Mill out cavity side of the crown cap from the casting		×	×	
4	Casting	ㅗ			14	Backing embed cavity side	Σ			
15	Bedding out	Σ			15	Mill occlusal side		×	×	
16	Finish clean cast blank	Σ			16	Release crown cap from bedding plastic	エ			
17	Separate inlet channel	Σ			17	If appropriate, slightly manually correct crown cap	ᅩ			
18	Work with the hand piece	ب			9	Blast crown cap	ᅩ			
19	Blast crown cap	エ			19	Clean crown cap and stump	エ			
20	Clean crown cap and stump	ᅩ			28	Final operations	エ			
21	Final operations	ㅗ							-	
	H								_	
2	Manual Work Time Duration Shorf (K) Medium (M) Long (L)	Σ) En) Long (L,	 			Fin 11	7		